

## AIR-BAG SUSPENSION SYSTEM

### ABSTRACT OF THE DISCLOSURE

5 A suspension system for a motorcycle, comprising a  
motorcycle main frame, a swing arm pivotally mounted to the  
motorcycle main frame about a pivot axis, and an air-bag  
suspension system. The air-bag suspension system includes at  
least one air-bag constructed of an elastomeric material. The  
air-bag is housed within a housing assembly and is secured at  
10 one end to a piston located within the housing assembly and at  
its other end to an upper plate or end cap of the housing  
assembly. The housing assembly is attached to a shock  
absorber, and the shock absorber is attached at its forward  
end to the cross member plate of the motorcycle main frame and  
15 is pivotally attached at its rearward end to the lower  
transverse cross member of the swing arm.